



Know what's below.
Call before you dig.

Description:

Land located in the Township of Georgetown, County of Ottawa, State of Michigan, and is described as follows:

That part of the NW 1/4, Section 25, T6N, R13W, Georgetown Township, Ottawa County, Michigan described as: BEGINNING at a point on the East line of said NE 1/4, which is S00°10'39"E 317.27 feet from the NE 1/4 corner of Section 25; thence S00°10'39"E 285.00 feet along said East line; thence North 89°40'05"W 218 feet along North line of the South 725.00 feet of the NE 1/4 of the NE 1/4 of Section 25; thence S00°10'39"E 165.00 feet; thence N89°41'05"W 232.00 feet; thence N00°10'39"W 450.00 feet; thence S89°40'05"E 450.00 Feet to the place of beginning.

Gross Land Area: Gross 166,523 Square Feet or 3.82 Acres.
Net (To Statutory 33' ROW) 157,118 Square Feet or 3.61 Acres

GENERAL NOTES:

- Project Description: BioLife is a plasma collection facility.
- Zoning: NS-NEIGHBORHOOD SERVICE COMMERCIAL
- SETBACKS - Parking and Building
FRONT 80' From C/L of Kenowa Avenue
SIDE 0' Or 25' Abutting Residential District
REAR 50'
MAX BLDG. HEIGHT 2.5 STORIES OR 35'
- Georgetown Township Requirements

	Proposed	Parking Spaces
Medical Clinic - 3 spaces/examining room	55 beds	144 spaces
Parking Spaces used by Panera Bread		19 spaces
Proposed Parking		174 spaces (including 6 barrier free spaces)

- Light Poles do not exceed 25' high. Lighting is directed downward and will not shed light on adjacent properties or the roadway.
- See separate landscaping plan.
- All 12" storm sewer shall be smooth-lined plastic underdrain with sock
- Catchbasins in 24" concrete curb shall be EJ 7045-M1.
- All new catchbasins in aisles shall have EJ 5150 w/ M1 grate.
- Parking Lot Striping:
White - Parking and Loading Spaces
Blue - Barrier Free Spaces.
- Signage will conform to the Township Ordinance.

EXISTING NON-CONFORMING PARKING DOES NOT REQUIRE VARIANCE UNLESS COST OF REPAIR EXCEEDS 25% COST OF FAIR VALUATION OF PARKING AREA
• REMOVE EXISTING BIT AND GRAVEL TO PLACE 5" CONC. AT EX. GRADE (SEE DETAIL)
• REMAINING SAND SUBBASE AND GRAVEL TO REMAIN

Soil Borings (Hollow Stem Augers)
SME (2-18-2013)

Test Hole No. 1

- 0.0 - 0.3 4" Asphalt/concrete
- 0.3 - 2.2 Fine to med. sand, trace silt & gravel; brown, moist, med. dense (SP/FH)
- 2.2 - 2.7 Silty fine sand, trace gravel, dark brown, moist, med. dense (SM/FH)
- 2.7 - 8.5 Silty fine sand, trace gravel, freq. clayey silt layers & seams, brown, moist to wet, loose to very loose (SM)
- 8.5 - 13.0 Clayey silt, trace to some sand, occ. silty sand seams, brown & gray, stiff (ML)
- 13.0 - 15.0 Fine to coarse sand, trace to some silt, trace gravel, gray, wet, loose (SP-SM)

Water Table at 13.1 ft. during boring
Water Table at 7.1 ft. after boring

Test Hole No. 2

- 0.0 - 0.3 4" Asphalt/concrete
- 0.3 - 3.3 Fine to med. sand, trace silt & gravel, occ. silty sand seams, brown, moist, med. dense (SP/FH)
- 3.3 - 8.2 Clayey fine sand, some silt, trace gravel, freq. dark brown silty sand seams, brown & gray, moist to wet, med. dense to loose (SC)
- 8.2 - 15.0 Fine sand, trace to some silt, trace gravel, occ. silt layers & seams, brown, wet loose to very loose (SP-SM)

Water at 8.0 ft. during boring
Water at 7.6 ft. after boring
Water at 7.3 ft. 1 hour after boring

Test Hole No. 3

- 0.0 - 0.4 5" Asphalt/concrete
- 0.4 - 2.7 Fine to med. sand, trace silt & gravel, occ. silty sand seams, brown, moist, med. dense (SP/FH)
- 2.7 - 3.1 Silty fine sand, occ. root fibers, dark brown, moist (SM)
- 3.1 - 6.6 Silty fine sand, trace gravel, brown, moist, loose (SM)
- 6.6 - 8.5 Fine to med. sand, trace to some silt, trace gravel, wet, loose (SP-SM)
- 8.5 - 15 Fine sand, trace to some silt, trace gravel, gray, wet, loose to med. dense (SP-SM)

Water at 12.1 ft. during boring
Water at 6.5 ft. after boring
Water at 6.9 ft. 1 hour after boring

Test Hole No. 4

- 0.0 - 0.5 6" Clayey sand topsoil, dark brown
- 0.5 - 3.5 Fine to med. sand, trace silt & gravel, occ. silty sand layers and root fibers, brown, moist, very loose (SP/FH)
- 3.5 - 6.0 Silty fine sand, trace gravel, freq. silt seams, brown, moist, med. dense (SM)
- 6.0 - 7.7 Silty fine to coarse sand, trace to some gravel, brown, moist to wet, loose (SM)
- 7.7 - 13.5 Fine to coarse sand, some silt, trace to some gravel, brown, wet, loose (SM)
- 13.5 - 15.0 Fine to med. sand, trace to some silt, trace gravel, occ. silty sand seams, brown, wet, loose (SP-SM)

Water at 11.2 ft. during boring
Water at 7.1 ft. at end of boring and 4 hrs after boring

Test Hole No. 5

- 0.0 - 0.3 4" Asphalt / Concrete
- 0.3 - 3.0 Fine to med. sand, trace silt & gravel, occ. dark brown silty sand layers, brown, moist, med. dense (SP/FH)
- 3.0 - 7.1 Silty clay, some sand, trace gravel, freq. silty sand seams, brown & gray, stiff (CL)
- 7.1 - 10.0 Fine to coarse sand, some silt, trace gravel, brown, wet medium dense (SM)

Water at 8.2 ft. during boring
Water at 7.1 ft. at end of boring

Test Hole No. 6

- 0.0 - 0.4 5" Asphalt Concrete
- 0.4 - 1.1 6" Fine to coarse sand, trace gravel, brown
- 1.1 - 3.5 Fine sand, trace silt & gravel, occ. silty sand layers & seams, brown, moist, loose (SP/FH)
- 3.5 - 8.5 Fine to coarse sand, some silt, trace gravel, brown, moist to wet, loose (SM)
- 8.5 - 10.0 Fine to coarse sand, trace to some silt, trace gravel, brown, wet, loose (SP-SM)

Water at 7.1 ft. during boring

Test Hole No. 7

- 0.0 - 0.7 8" Clayey sand topsoil, dark brown
- 0.7 - 3.5 Clayey fine sand, some silt, trace gravel, occ. root fibers, dark brown, moist, loose (SC/FH/Topsoil)
- 3.5 - 6.0 Fine to coarse sand, some silt, trace gravel, freq. silty sand seams, brown, moist to wet, very loose (SM/FH)
- 6.0 - 8.4 Fine sand, some silt, trace gravel, brown turning gray below 7 ft., wet, very loose (SM)
- 8.4 - 10.0 Fine to coarse sand, some silt, trace gravel, gray, wet, loose (SM)

Water at 7.7 ft. during boring

Test Hole No. 8

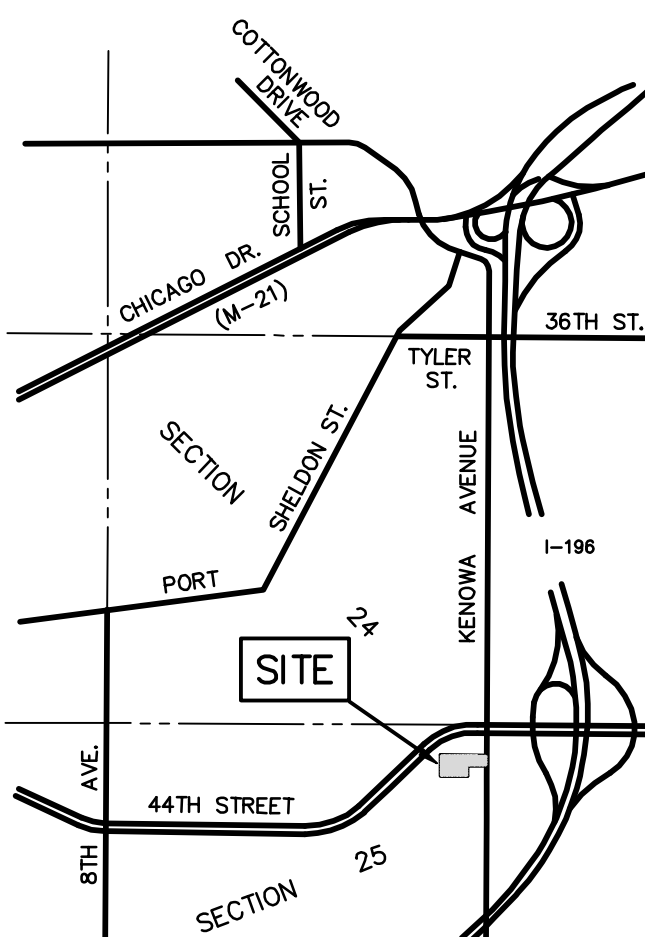
- 0.0 - 0.8 10" Silty sand topsoil, dark brown
- 0.8 - 2.5 Fine sand, some silt, trace gravel, occ. root fibers, brown, moist, very loose (SM/FH)
- 2.5 - 4.7 Fine to med. sand, trace silt & gravel, brown, moist, very loose (SM/FH)
- 4.7 - 8.1 Fine to coarse sand, trace to some silt, trace gravel, brown, moist to wet, loose (SP-SM/FH)
- 8.1 - 10.0 Sandy organic silt, trace gravel, occ. black peat layers & seams, occ. wood pieces, dark gray, wet (CL)

Water at 8.9 ft. during boring
Water at 5.1 ft. at end of boring
Water at 4.6 ft. at end of boring

CITY OF GRANDVILLE



SCALE: 1" = 30'
1" CONTOUR INTERVAL



LOCATION MAP

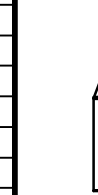
SITE AND UTILITY PLAN BIOLIFE - 6331 KENOWA AVENUE

FOR: BUILD TO SUIT, INC.
ATTN: BEN LOGSDON
131 EAST BURLINGTON STREET, SUITE 2FL
IOWA CITY, IOWA 52240
IN: PART OF THE N.E. 1/4, SECTION 25, T6N, R13W,
GEORGETOWN TOWNSHIP, KENT COUNTY, MICHIGAN

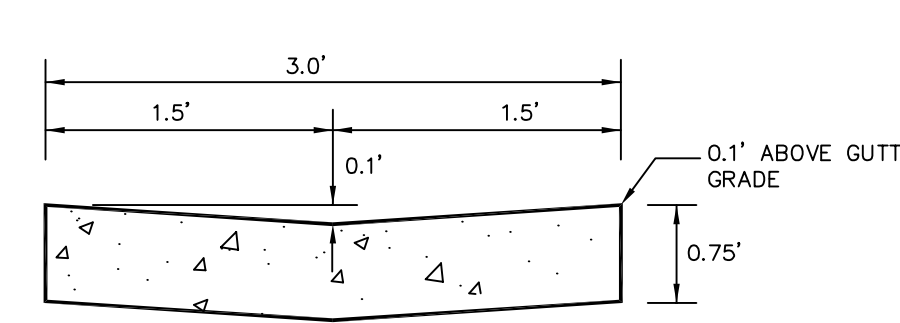
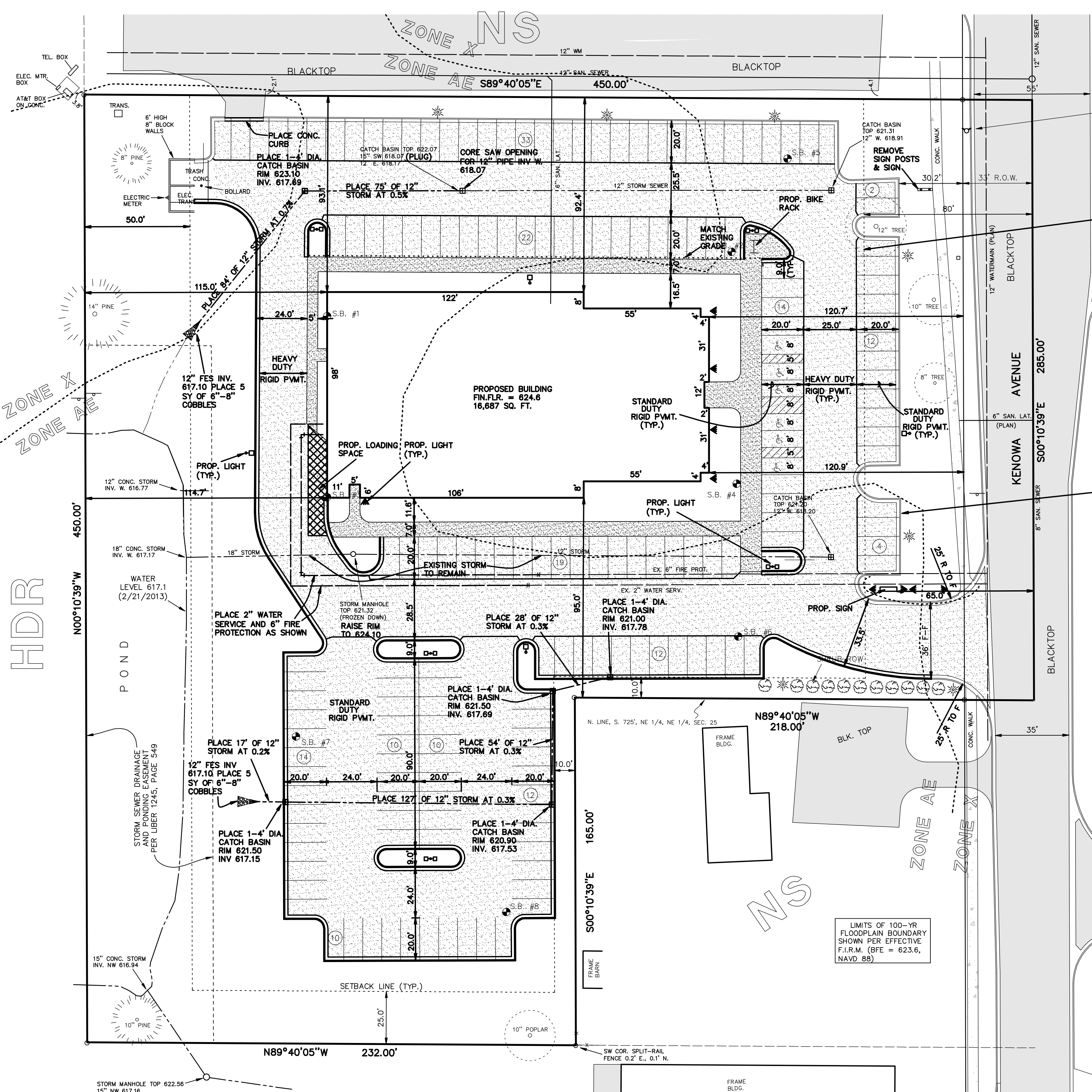
REVISIONS:

NO.	DATE	DESCRIPTION
1	6/17/13	REVISED PER TOWNSHIP (JSV)

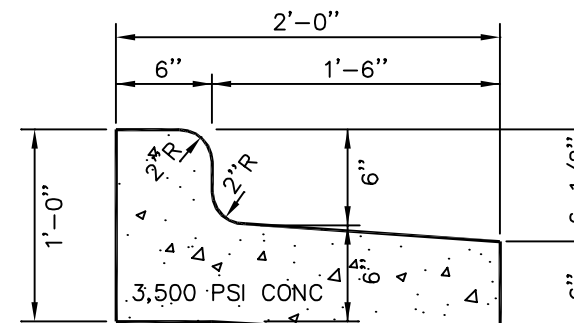
excel engineering, inc.
planners • engineers • surveyors
5252 Clyde Park, S.W. • Grand Rapids, MI 49509
Phone: (616) 531-3660 Fax: (616) 531-2121
www.excelengineering.com



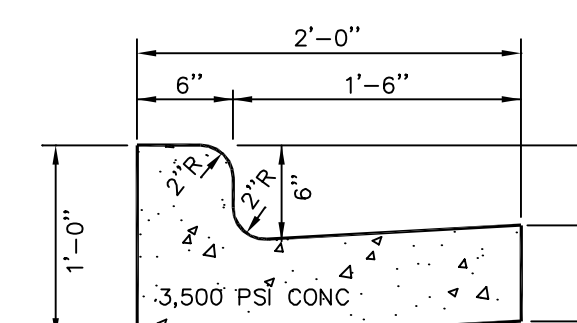
DRAWN BY: JR
APPROVED BY: DDG
FILE NO.: 121763E
PROJ. ENG.: DDG
PROJ. SURV.: VO
DATE: 5/31/2013
SHEET 2 of 3



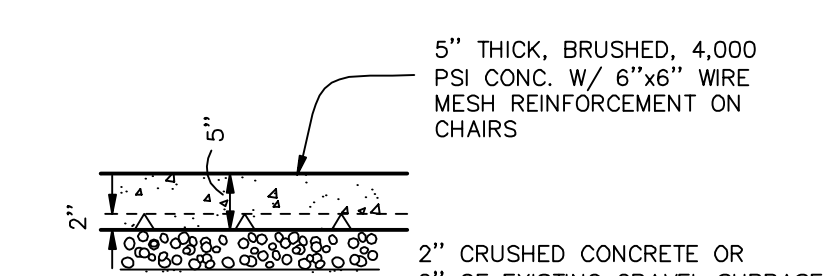
36" CONC GUTTER PAN
AT APPROACH



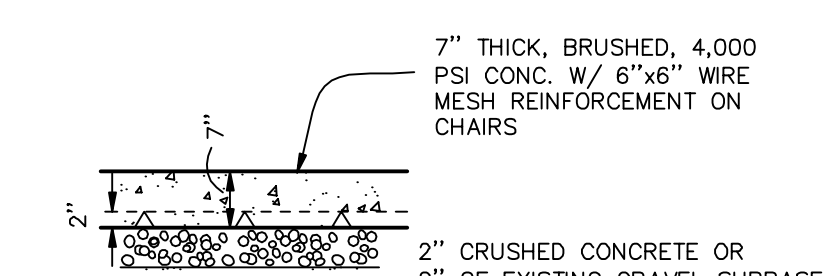
24" HEAD CURB DETAIL
(PITCHED OUT)
(RIGHT-OF-WAY)



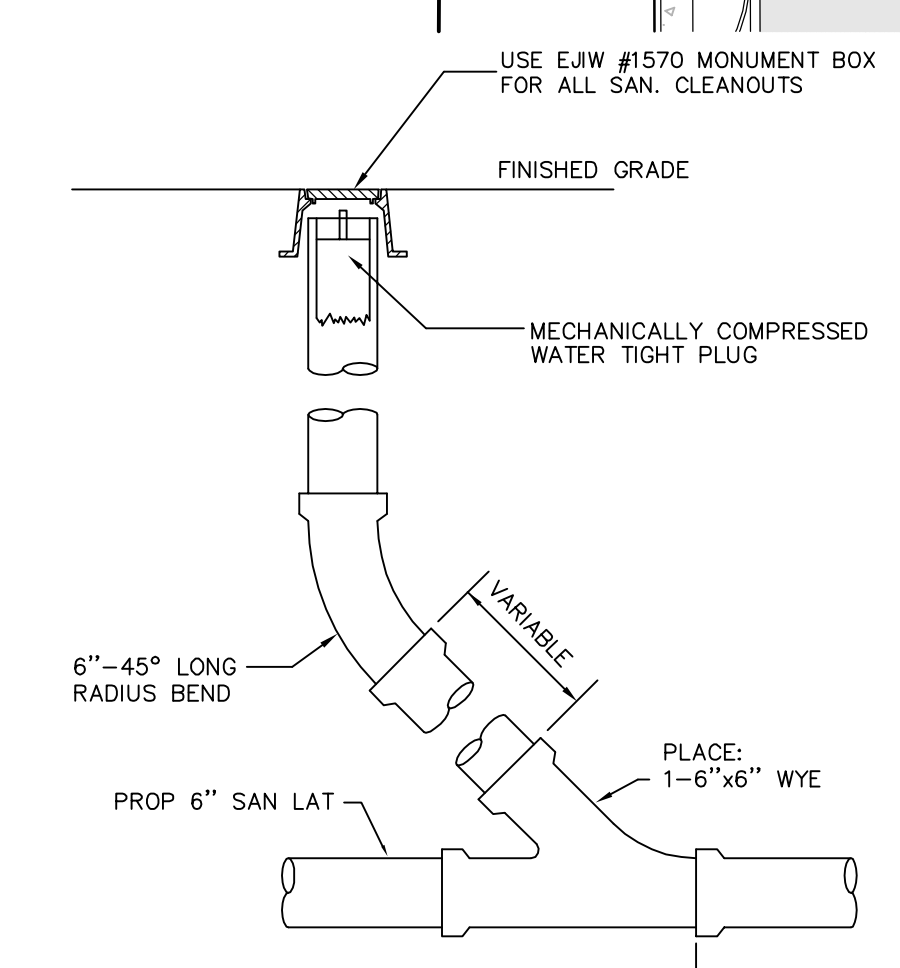
24" HEAD CURB DETAIL
(PITCHED IN)



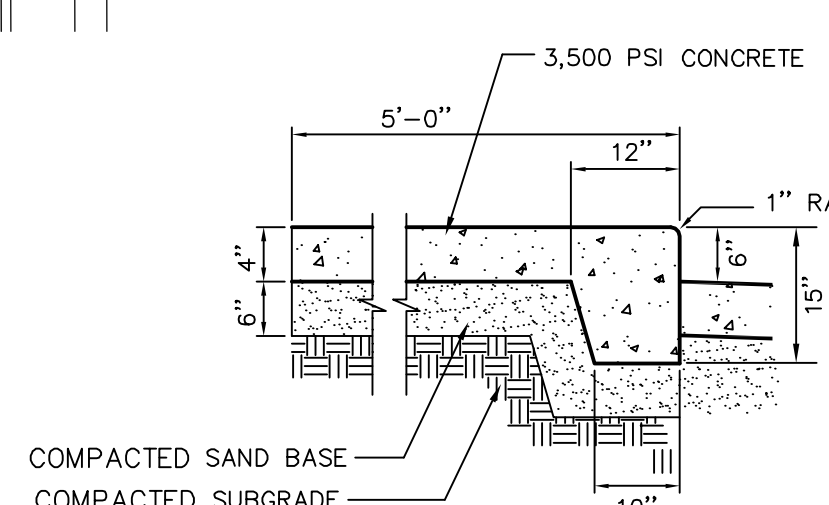
STANDARD DUTY RIGID PAVEMENT DETAIL



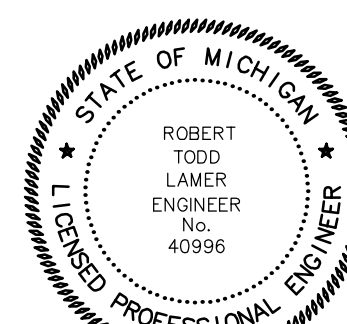
HEAVY DUTY RIGID PAVEMENT DETAIL



SAN SEWER LATERAL CLEANOUT DETAIL



INTEGRAL WALK/CURB



LEGEND

- = IRON STAKE FOUND
- = IRON STAKE SET
- ⊙ = MONUMENT
- ⊙ = UTILITY POLE & GUY WIRE
- ⊙ = LIGHT POLE
- ⊙ = SIGN
- ⊙ = HYDRANT
- ⊙ = VALVE
- ⊙ = CATCH BASIN
- ⊙ = MANHOLE
- ⊙ = BURIED GAS LINE MARKER
- ⊙ = BURIED TELEPHONE MARKER
- = FENCE LINE
- = OVERHEAD WIRES
- = TELEPHONE BOX
- = EX. CURB
- = PROP. CURB